Dear AAPPS-DPP Members

Recent articles in Physics Magazine(Plasma Fluctuations Could Generate Bright Pulsar Emission Alice K. Harding – June 15, 2020) and PRL (Alexander Philippov, June 15, Origin of Pulsar Radio Emission, 124, 245101 (2020)) cites Don Melrose RMPP article (https://link.springer.com/article/10.1007%2Fs41614-017-0007-0).

I am glad to see RMPP contributor is more recognized.

Sincerely yours,

M. Kikuchi, AAPPS-DPP chair & CEO, RMPP Chair

Physics magazine 2020: If pulsars were incoherent blackbody emitters, their radio brightness would imply an unrealistic temperature of 10^25–10^30 K. Thus the emission must be coherent. Coherent emission of radio waves, albeit with much lower brightness, is seen to come from the Sun and from the magnetospheres of Earth and Jupiter (Melrose, 2017).

PRL2020: Theories involving charged bunches face severe difficulties of forming long-lived bunches in the first place (Melrose, 2017).